



LFW

PTO/SB/21 (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

5

Application Number

10/828,510

Filing Date

April 19, 2004

First Named Inventor

Stefan Zimmermann

Group Art Unit

3736

Examiner Name

Unassigned

Attorney Docket Number

313S-300710US

**ENCLOSURES (check all that apply)**

- ☐ Fee Transmittal Form  
☐ Fee Attached  
☐ Amendment / Response  
☐ After Final  
☐ Affidavits/declaration(s)  
☐ Extension of Time Request  
☐ Express Abandonment Request  
☒ Information Disclosure Statement  
☐ Certified Copy of Priority Document(s)  
☐ Response to Missing Parts/ Incomplete Application  
☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Assignment Papers (for an Application)  
☐ Drawing(s)  
☐ Licensing-related Papers  
☐ Petition Routing Slip (PTO/SB/69) and Accompanying Petition  
☐ Petition to Convert to a Provisional Application  
☐ Power of Attorney, Revocation Change of Correspondence Address  
☐ Terminal Disclaimer  
☐ Small Entity Statement  
☐ Request for Refund

- ☐ After Allowance Communication to Group  
☐ Appeal Communication to Board of Appeals and Interferences  
☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  
☐ Proprietary Information  
☐ Status Letter  
☒ Additional Enclosure(s) (please identify below):

PTO Form 1449; cited references; receipt acknowledgment postcard

**Authorization to Charge Deposit Account**

Please charge Deposit Account No. 50-0893 for any additional fees associated with this paper or during the pendency of this application, including any extensions of time for consideration of the documents enclosed.

Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**Firm  
or  
Individual name

Paul Littlepage, Reg. No. 48,581, Quine Intellectual Property Law Group, P.C.

Signature

Date

September 7, 2004

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

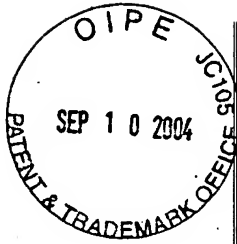
Typed or printed name

Deborah Berwick

Signature

Date

September 7, 2004



I hereby certify that this correspondence is being deposited with the United States Postal Service first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, on September 7, 2004

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

By Deborah Berwick  
Deborah Berwick

Attorney Docket No. 313S-300710US  
Client Ref. No. B03-072-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Stefan Zimmermann, et al.

Application No.: 10/828,510

Filed: April 19, 2004

For: MONITORING METHOD AND/OR  
APPARATUS

Examiner: Unassigned

Art Unit: 3736

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.97 and  
§ 1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

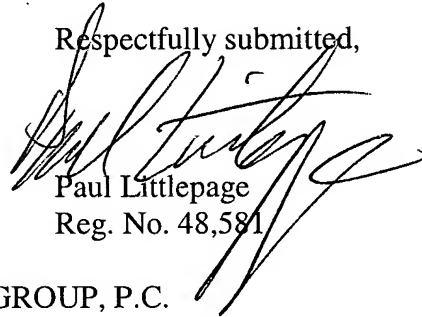
Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action on the merits per 37 CFR 1.97(b)(3). However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Paul Littlepage', is written over the typed name and registration number.

Paul Littlepage  
Reg. No. 48,581

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.  
P.O. BOX 458  
Alameda, CA 94501  
(510) 337-7871  
Fax (510) 337-7877

PBL:db



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

## Complete if Known

Application Number	10/828,510
Filing Date	April 19, 2004
First Named Inventor	Stefan Zimmermann
Group Art Unit	3736
Examiner Name	Unassigned
Attorney Docket Number	313S-300710US
Date Submitted	September 7, 2004

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
	01	6,091,976		Pfeiffer et al.	07-18-2000	
	02	6,406,638		Stoeber et al.	06-18-2002	

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	03	BAKER et al. (1999) "Fluid mechanics analysis of a spring-loaded jet injector," <i>IEEE Transactions on Biomedical Engineering</i> , 46 (2), February 1999, pp. 235-242.	
	04	CHEYNE et al. (2002) "Making 'sense' of diabetes: using a continuous glucose sensor in clinical practice," <i>Diabetes Metab Res Rev</i> , 18 (Suppl. 1) pp. 543-548.	
	05	FRECKMANN et al. (2001) "Recent advances in continuous glucose monitoring," <i>Exp Clin Endocrinol Diabetes</i> , 109, Suppl 2: S347-S357.	
	06	FRECKMANN et al. (2002) "Measurement of the Postprandial Physiological Time Lag Between Whole Blood- and Subcutaneous Tissue Glucose Traces Following Meals in Type 1 Diabetic Patients," Poster-Number 553; <i>PS 37 Insulin Action, 38<sup>th</sup> EASD Annual Meeting</i> , Budapest, Hungary, 1-5 September 2002.	
	07	HOSS et al. (2001) "A Novel Method for Continuous Online Glucose Monitoring in Humans: The Comparative Microdialysis Technique," <i>Diabetes Technology &amp; Therapeutics</i> , Vol. 3, No. 2, pp. 237-243.	
	08	ICHIMURA (1984) "A Convenient Photochemical Method to Immobilize Enzymes," <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , John Wiley & Sons, Vol. 22, pp. 2817-2828, (1984).	
	09	KALATZ et al. (2000) "Feedback-Regulation of Subcutaneous Insulin Infusion by Continuous Subcutaneous Glucose Measurement," <i>Acta Diabetol</i> 37:164 (abstract).	
	10	KENDALL et al. (2000) "Transdermal ballistic delivery of Micro-particles: Investigation into skin penetration," <i>Proceedings of the 22<sup>nd</sup> Annual EMBS International Conference</i> , July 23-28, Chicago, IL, USA, pp. 1621-1624, 2000.	
	11	LEE et al. (2000) "In vivo transdermal delivery using a shock tube," <i>Shock Waves</i> , 10, pp. 307-311, 2000.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>	<b>Complete if Known</b>	
	Application Number	<b>10/828,510</b>
	Filing Date	<b>April 19, 2004</b>
	First Named Inventor	<b>Stefan Zimmermann</b>
	Group Art Unit	<b>3736</b>
	Examiner Name	<b>Unassigned</b>
	Attorney Docket Number	<b>313S-300710US</b>
	Date Submitted	<b>September 7, 2004</b>

	12	LOPEZ (2002) "In situ fabricated microdialysis microchannels with biofouling prevention employing electrical methods," Thesis Proposal Draft, The Robotics Institute, Carnegie Mellon University, July 2002.	
	13	NGUYEN et al. (2002) "MEMS-Micropumps: A Review," <i>Journal of Fluids Engineering</i> , Transactions of the ASME, Vol. 124, pp. 384-392..	
	14	PARANJAPPE et al. (2002) "Dermal thermo-poration with a PDMS-based patch for transdermal biomolecular detection," <i>Technical Digest of the Solid-State Sensor, Actuator, and Microsystems Workshop 2002</i> , Hilton Head Island, SC, USA, June 2-6, pp. 73-76, 2002.	
	15	PFEIFFER et al. (2002) "A Novell Selfcalibrating Method for Continuous Online Determination of Subcutaneous Tissue Glucose, based on the Microdialysis Technique," Poster #98, <i>Second Annual Diabetes Technology Meeting</i> , October 31 - November 02, 2002, Atlanta, Georgia USA.	
	16	PFEIFFER et al. (2002) "A Mathematical Index of Short Term Time Courses of Continuous Glucose Traces," Poster-Number 861; <i>PS 68 Alternative Site Glucose Testing, 38<sup>th</sup> EASD Annual Meeting</i> , Budapest, Hungary, 1-5 September 2002.	
	17	PFEIFFER et al. (2002) "Increasing the linearity of enzyme-based amperometric glucose sensors by adding perfluorocarbon emulsions to the reaction," Poster #99, <i>Second Annual Diabetes Technology Meeting</i> , October 31 - November 02, 2002, Atlanta, Georgia, USA.	
	18	PITZER et al. (2001) "Detection of Hypoglycemia with the GlucoWatch Biographer", <i>Diabetes Care</i> , Vol. 24, No. 5, pp. 881-885.	
	19	XINGLONG et al. (2001) "Particle acceleration for delivery deoxyribonucleic acid vaccine into skin <i>in vivo</i> ," <i>Review of Scientific Instruments</i> , 72 (8), pp. 3390-3395, 2001.	
	20	ZAHN (2001) "Microfabricated Microneedles for Minimally Invasive Drug Delivery, Sampling and Analysis," Dissertation, Ph.D. Engineering-Bioengineering, UC Berkeley and UC San Francisco, Spring 2001.	
	21	ZAHN et al. (2000) "Microfabricated Microdialysis Microneedles for Continuous Medical Monitoring," <i>1<sup>st</sup> Annual International IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine &amp; Biology</i> , October 12-14, 2000, Lyon, France.	
	22	ZAHN et al. (2001) "An Integrated Microfluidic Device for the Continuous Sampling and Analysis of Biological Fluids," <i>Proceedings of 2001 ASME International Mechanical Engineering Congress and Exposition</i> , November 11-16, New York, NY, USA.	
	23	ZAHN et al. (2001) "Continuous on-chip micropumping through a microneedle," <i>14<sup>th</sup> Annual IEEE International MEMS-01 Conference</i> , pp. 503-506	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.